



CDF Operations Report

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CDF Weekly Meeting



STORE SUMMARY

Store	Start Date	Duration (hours)	Inst Lum Initial e30 cm-2 s-1	Int. Lum Delivered nb-1	Live Lum nb-1	All Good nb-1	Tevatron Terminate
6065	4/18	16.3	210.2	5,070	4,425 87%	4,423 87%	OK
6066	4/19	15.1	237.2	5,302	4,034 76%	4,033 76%	OK
6067	4/20	13.7	242.1	5,171	3,970 77%	3,099 60%	OK
6068	4/20	13.9	237.5	5,186	4,804 93%	4,804 93%	OK
6069	4/21	13.9	248.7	5,537	4,362 79%	4,123 75%	OK
6070	4/22	14.9	240.0	5,905	5,067 86%	5,067 86%	OK
6071	4/23	0	>200				quench Not understood
6076	4/23	2.0	126.3	698	665 95%	665 95%	Quench Quad PS



STORE SUMMARY (cont'd)

Store	Start Date	Duration (hours)	Inst Lum Initial e30 cm-2 s-1	Int. Lum Delivered nb-1	Live Lum nb-1	All Good nb-1	
Total 6065-6076		89.7		32,871	27,325 83%	26,214 80%	
Total FY08 5657-6076		2326		711,954	577,396 81%	520,937 73%	
Total Run II				3.94 fb-1	3.23 fb-1 82%	2.85 fb-1 73%	



Notes and Details on inefficiencies....

- Tevatron RunCo has not been pushing luminosities for past week due to concerns about quenches in B0 low beta region from previous week. Not fully resolved....
- Store 6065 (87%): COT SL8 HV trip, SVX trip.
- Store 6066 (76%): L3 proxy node crash.
- Store 6067 (60%): SVX HV trips. (68% efficiency if we include some good runs taken without silicon.)
- Store 6068 (93%): Smoooooooooooooooooth.
- Store 6069 (75%): L2 XFT issues (see later), PSM glitch.
- Store 6070 (86%): L2 XFT work (see later), EVB glitch.
- Store 6071: This store quenched at end of scraping. The cause is not understood.
- Store 6076 (95%): Low initial luminosity but smooth otherwise. We were running with PPR bad due to failed SMD board which was replaced in middle of night by Mike and Britney after store dropped. Thanks to both!! This store dropped due to a failed quad power supply controller at D0.



More notes

- COT had problems with trips on SL8 early in the week. Currently p12, quad B and s11, quad B are on separate HV supplies with s11B 20 volts below nominal and p12B 40 volts below nominal. System has stable for a few days. COT experts are watching.....
- Over the weekend, DAQ system was getting periodic high deadtime which was "fixed" by halt-recover-run. Problem appears to be an XFT finder out of synch in sending data to Pulsar in L2 (these are Jonathan's words). Work by Alison, Nils, Laura, Jonathan etc to either identify and correct the problem or work around it have not been successful. It is not clear why this drives the deadtime up and so far has not cost us too much data. Work continues.....
- As always numerous other items have been repaired or improved or tweaked (Scalermon, RunControl, L2, L1MET ...).
- In addition to last night's access, we had a controlled access during the day Wednesday and took care of a number of issues including WCAL admem replacement (Mattson, Shalhout).